kogan

Full High Definition LCD TV

Kogan 1080p47

USER MANUAL

HDMI™
HIGH DEFINITION MULTIMEDIA INTERFACE

INTEGRATED HD Digital Tuner

Safety information

To ensure reliable and safe operation of this equipment, please read carefully all of the instructions in this user guide, especially the safety information below.

Electrical safety

- The TV set should only be connected to a mains power supply which matches that stated on the label on the mains power adaptor.
- To prevent overload, don't share the same mains power supply socket with too many other items of equipment.
- Be careful to route the mains power cable away from areas where people can trip over it.
- Unplug the TV when it is not going to be used for a long time. Disconnect both the aerial and the main power cable.
- Take care not to expose the TV set or the remote control to water or moisture.
- Pull the plug out immediately, and seek professional help if:
  - the mains power plug or cable is damaged
  - liquid is spilt onto the TV set, or if it is accidentally exposed to water or moisture
  - anything accidentally penetrates the ventilation slots
  - the TV set doesn't work normally.
- Never remove the cover, there are no user-serviceable parts inside. Allow only qualified service personnel to repair this equipment.
- To avoid leakage, take out the remote control batteries when:
  - the batteries are exhausted
  - you are not going to use the remote control for a long time.
- Batteries should be recycled or disposed of in a proper manner.

Physical safety

- Make sure the set is positioned at least 5cm (2inch) from the wall or furniture.
- Never tap or shake the screen for any reason.
- Take care not to drop or sit on the remote control.
- Clean the set using only a soft, clean, dry cloth. Do not use any solvents.

OPERATING INSTRUCTIONS

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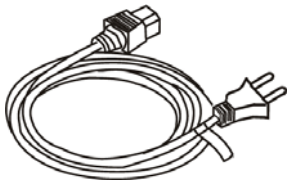
In the box

TV Set



Power supply cable

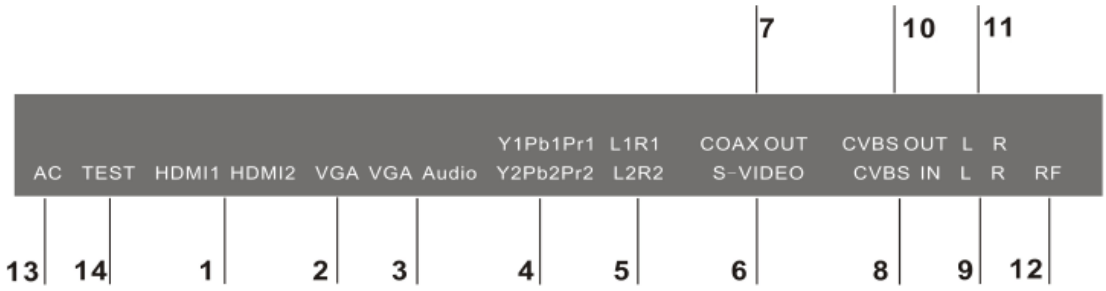
Remote control

- If any of the accessories are missing, then please contact Kogan Technologies.

- Keep all the original packaging in case you need to return the TV to Kogan Technologies.

Connection

Rear connection panel



Number	Name	Function Description
1	HDMI (1,2)	HDMI input jacks (audio and video)
2	VGA	VGA (D-sub) computer input
3	VGA Audio IN	VGA audio input (3.5mm stereo)
4	YPbPr (1,2) IN	YPbPr inputs
5	YPbPr (1,2) Audio IN	YPbPr Audio input
6	S-VIDEO	S-Video input
7	COAX OUT	Audio signal (digital) coaxial output
8	CVBS IN	AV analogue video input
9	CVBS_R/CVBS_L	AV analogue audio input (also S-Video audio IN)
10	CVBS OUT	This port is not functional on this model
11	CVBS Audio OUT	This port is not functional on this model
12	RF	Connect to TV cable/antenna or DVB-t antenna
13	AC	Connect to the supplied Power Adaptor
14	TEST	USB slot for testing and upgrade

Getting Started

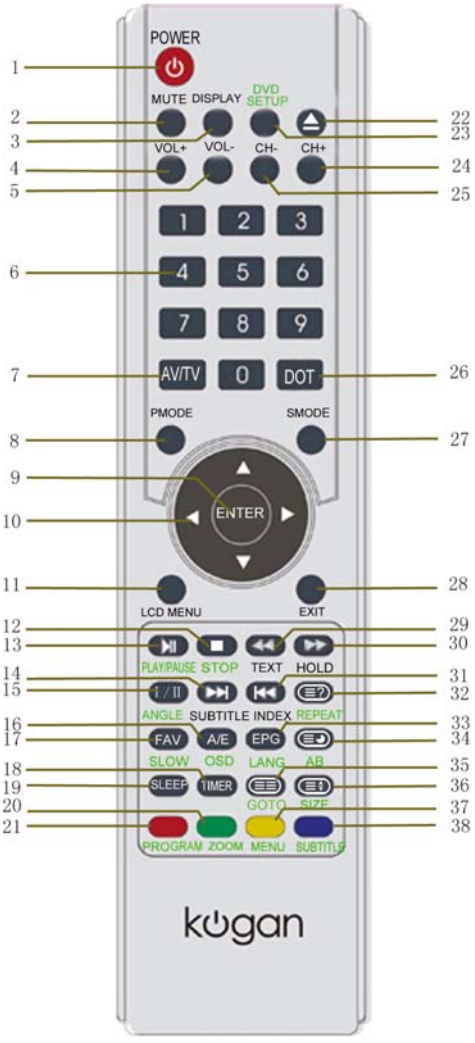
1. Connect the aerial or input source to the appropriate input socket at the rear of the TV set (see page 4).
2. Connect the small round plug on the power adaptor cable to the power input socket at the rear of the TV set.
3. Connect the power cable between the power adaptor and the mains supply.
4. Switch the power on by pressing the **POWER** button on the front panel or the remote control (the **LED** will show green).
5. Use the **AV/TV** button on the front panel or the remote control to select which input source to use : TV-AV-SVIDEO-YPBPR1-YPBPR2-VGA-HDMI1-HDMI2
6. You can use the front panel controls to adjust the volume or select a channel as shown below, or you may use the remote control for these functions.
7. To switch the set off for a short time, press the **POWER** button, the set will go into standby and the **LED** will show red. If you are not going to use the set for some time, switch the power off completely by unplugging the mains cable.

Front panel controls

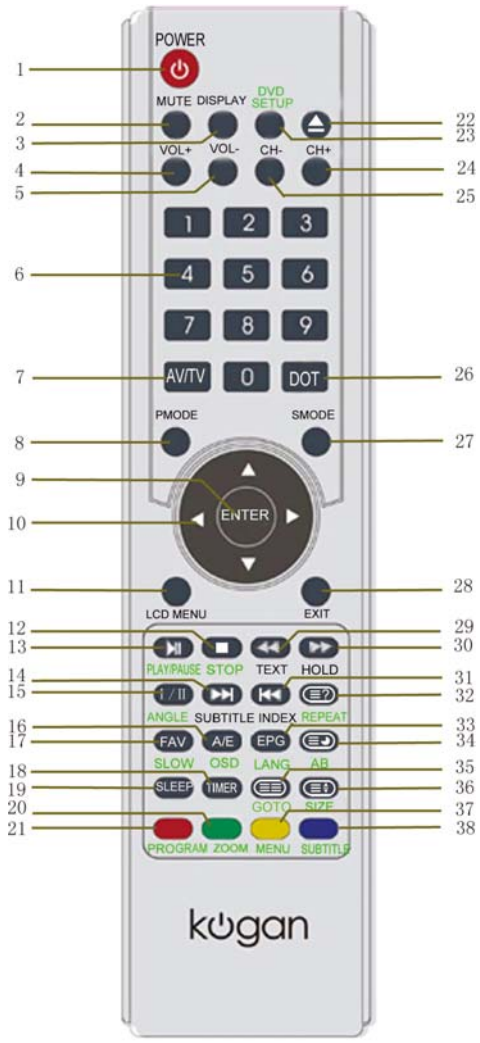
The Remote Control

Using the remote control for normal TV functions

1. Insert two AAA batteries, making sure that the polarity is correct as marked inside the compartment.
2. Aim the remote control at the IR sensor just below the green light (see page 5 for diagram). Keep this area clear at all times.
3. Do not press the buttons on the remote too quickly – allow the TV time to respond.



01. POWER:	Press to enter or exit the standby mode
02. MUTE:	Press to turn on or off speaker output
03. DISPLAY:	Press to show or remove status display
04. VOL+:	Press to increase volume
05. VOL-:	Press to decrease volume
06. Numbers:	Press to select a channel
07. AV/TV:	Press to select input source
08. PMODE:	Press to select picture display mode.
09. Enter:	Press to confirm your selection
10. Directions:	Press △▽◁▷ to Select up (Page+ for TV teletext), down (Page- for teletext), left, and right in menu screens.
11. LCD Menu	Press to display the LCD Menu system (see p.9)
12, 13, 15.:	These buttons are unused on this model
14. SUBTITLE	Press this button to activate subtitles for Digital TV programs where available.
16. A/E	Press this button in TV mode to make the current channel a Favourite
17. FAV:	Press this button to enter the Favourites menu directly
18. TIMER:	Press to display the time
19. SLEEP:	Press to enter Sleep mode, where the TV will automatically enter standby mode after a set time (press to toggle between “Off” and up to 240 minutes in 15 minute increments)
20. GREEN	Press to activate the “GREEN” function in teletext
21. RED	Press to activate the “RED” function in teletext



22-23.:	These buttons are unused on this model
24. CH+	Press to select TV channel (see p.15 “Channel Skip”)
25. CH-	Press to select TV channel (see p.15 “Channel Skip”)
26. DOT	Press the number buttons with this to select channels directly (i.e. channel 108-1 would need the DOT button pressed after the 8).
27. SMODE	Press this button to toggle between preset sound modes for different echoing effects.
28. EXIT	Press this button to exit in a menu.
29. TEXT	Press to enter or exit teletext mode for TV/DVB
30-32.:	These buttons are unused on this model
33. EPG	In TV/DVB mode, press to display the Electronic Programming Guide
34.	Press to access subpages for teletext
35.	This button is not used on this model
36.	Press to toggle between available display aspect ratios for the current input.
37. YELLOW	Press to activate the “YELLOW” function in teletext
38. BLUE	Press to activate the “BLUE” function in teletext

Note: The TV will return to TV mode when any of the buttons for changing channels are used, i.e. the Number buttons, CH+ and CH-

Initial Setup Instruction Guide

Power ON/OFF: Standby mode

- Press POWER ( ) button on the remote control or on the side panel to turn on the unit.

[The power indicator changes from red to green]

- Press POWER ( ) button on the remote control or on the side panel again to return the display to standby mode.

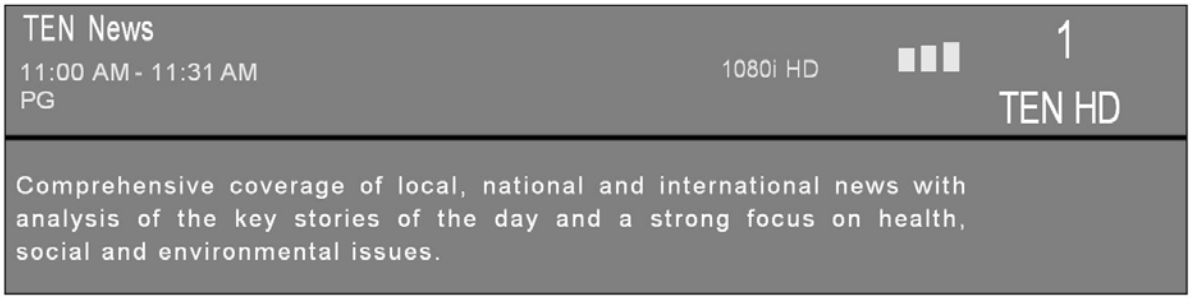
[The power indicator changes from green to red]

Selection of Input Mode

- Press the Input (AV/TV) button to display the signal source menu.
- Press ▽ or △ button to select the signal source you desire, then press the Enter button to confirm.

When selecting the input source, the screen will display the information of the selected input source. For example:

TV mode


TEN News
11:00 AM - 11:31 AM
PG
1080i HD
1
TEN HD
Comprehensive coverage of local, national and international news with analysis of the key stories of the day and a strong focus on health, social and environmental issues.

- When there is no signal from the selected source or channel, a warning message will be displayed.
- If you see the “No Signal!” warning, you can select a different channel or press the Input (AV/TV) button to change the selected source.
- When you first receive your new TV, it is advisable to perform a new “Channel Scan” to setup your set to receive all of the channels available in your area. Follow the section “Using Channel Scan”’ on page 15.

On Screen Display (OSD) Menu

After you have installed the batteries in the remote control, you can set setting preferences on the TV using the OSD menu system.

Navigating about the OSD menu:

- The buttons used in the OSD menu include: 'MENU' (LCD MENU), △▽◁▷, 'ENTER' and 'EXIT'.
- Whatever input source is currently selected, press the Menu button to open the OSD Menu for that source, then ▽or △ to select the sub menu pages

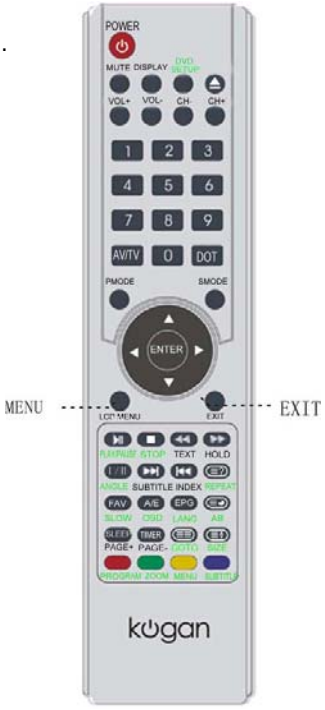
The sub menu pages are displayed in the following sequence (circular display):

→ Video → Audio → TV → Setup → Parental →

Note: The TV sub menu page will only appear for the TV mode OSD Menu.

When pressing the Menu button on the remote control or on the side panel, it will change in the following sequence:

Main Menu → Press Menu or Exit → Exit
Sub Menu → Press Exit → Previous Menu



1. Press the Menu button to display the menu system.
2. Press ▽or △button to select the menu pages.
3. Press the Enter or ▷ button to enter.
4. Press ▽or △button to select an item.
5. Press △▽◁▷button to select or adjust a setting.
6. If you do not make a selection within several seconds, the main menu will close automatically,
7. Press the Menu or Exit button exit the OSD menu.

On Screen Display (OSD) Functions

Video Page Menu

Adjustment of “Brightness” or “Contrast”

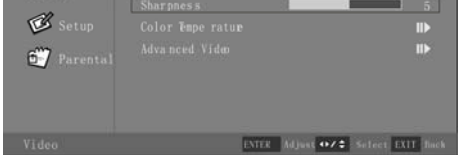
1. Press the Menu button, and the “Video” menu appears.
2. Press ▷ or Enter to enter the “Video” sub menu
3. Press ▽ or △ to highlight your selection.
4. Press ◁ or ▷ to adjust.
5. Press the Menu button to exit the OSD Menu, or press Exit to select another OSD submenu.

Adjustment of “Saturation” (inactive for VGA)

1. Press the Menu button, and the “Video” menu appears.
2. Press ▷ or Enter to enter the “Video” sub menu
3. Press ▽ or △ to highlight “Saturation”.
4. Press ◁ or ▷ to adjust.
5. Press the Menu button to exit the OSD Menu, or press Exit to select another OSD submenu.

Adjustment of “Hue” (only for NTSC)

1. Press the Menu button, and the “Video” menu appears.
2. Press ▷ or Enter to enter the “Video” sub menu
3. Press ▽ or △ to highlight “Hue”.
4. Press ◁ or ▷ to adjust.
5. Press the Menu button to exit the OSD Menu, or press Exit to select another OSD submenu.



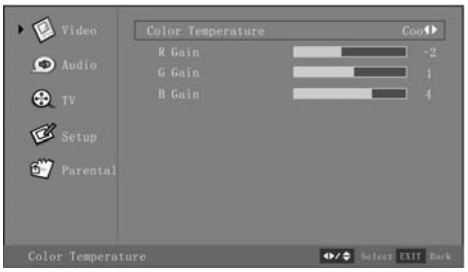
Adjustment of “Sharpness” (inactive for VGA)

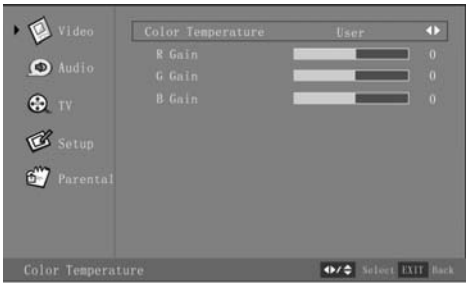
1. Press the Menu button, and the “Video” menu appears.
2. Press ▷ or Enter to enter the “Video” sub menu
3. Press ▽ or △ to highlight “Sharpness”.
4. Press ◁ or ▷ to adjust.
5. Press the Menu button to exit the OSD Menu, or press Exit to select another OSD submenu.

Selection of “Color Temperature”

1. Press the Menu button, and the “Video” menu appears.
2. Press ▷or Enter to enter the “Video” sub menu
3. Press ▽or △ to highlight “Color Temperature”.
4. Press ▷or Enter to enter the Color Temperature submenu.
5. Press ◁ or ▷ to select one of: “Cool”, “Standard”, “Warm” or “User”
6. Press the Menu button to exit the OSD Menu, or press Exit to make another selection.

If you adjust one item of “R Gain”, “G Gain”, or “B Gain”, the color temperature selection will change to “User” automatically. Other settings can be selected but not changed.





Selection of “Advanced Video” (Inactive for VGA)

1. Press the Menu button, and the “Video” menu appears.
2. Press ▷or Enter to enter the “Video” sub menu
3. Press ▽or △ to highlight “Advanced Video”.
4. Press ▷or Enter to enter the Advanced Video submenu.
5. Press ▽or △ to highlight your selection (see table on next page for details)
6. Press ◁ or ▷ to adjust.
7. Press the Menu button to exit the OSD Menu, or press Exit to make another selection.

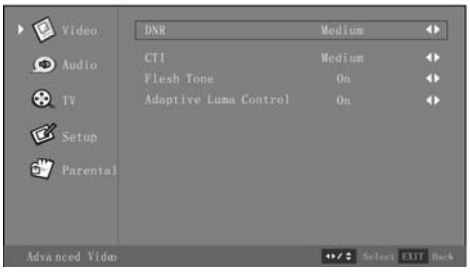


Table of Advanced Video Adjustment Settings

Setting	Options	Description
DNR	Off, Low, Medium, Strong, Auto	Select to control the sharpness and noise reduction.
CTI	Off, Low, Medium, Strong	Select to improve the dynamic color level.
Flesh Tone	On, Off	Select “On” to correct the flesh tone automatically.
Adaptive Luma Control	On, Off	When this is on, this feature will set the contrast and brightness levels for optimum performance.

<u>Selection of “VGA” (only for VGA)</u>

1. Press the Menu button, and the “Video” menu appears.
2. Press ▷ or Enter to enter the “Video” sub menu
3. Press ▽ or △ to highlight “VGA”
4. Press ▷ or Enter to enter the VGA submenu.

<u>Selection of “Auto Adjust”</u>

After entering the “VGA” menu:

1. Press ▽ or △ to highlight “Auto Adjust”
2. Press ▷ or Enter to confirm your selection.
3. Press the Menu button to exit the OSD Menu, or press Exit to make another selection.

Note: This item will auto-adjust the picture display.

<u>Selection of “H. Position”, “V. Position”, “Phase”, “Clock”.</u>

After entering the “VGA” menu:

1. Press ▽ or △ to highlight your selection
2. Press ◁ or ▷ to adjust.
3. Press the Menu button to exit the OSD Menu, or press Exit to make another selection.

Table of VGA Display Adjustment

Items	Description
H. Position	Use ▽or △ button to select it. Use ◁ or ▷ button move the display left or right.
V. Position	Use ▽or △ button to select it. Use ◁ or ▷ button to move the display up or down.
Phase	Use ▽or △ button to select it. Use ◁ or ▷ button to adjust.
Clock	Use ▽or △ button to select it. Use ◁ or ▷ button to adjust.

Audio Page Menu

Adjustment of “Balance”, “Bass” or “Treble”

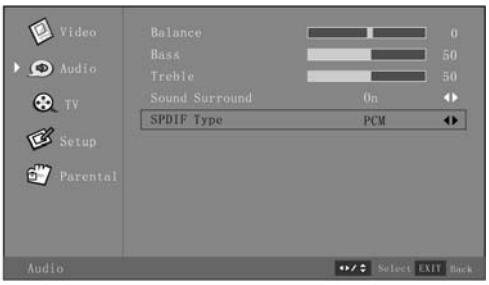
1. Press the Menu button, and then press ▽or △ until the “Audio” menu appears.
2. Press ▷ or Enter button to enter the “Audio” menu.
3. Press ▽or △ to highlight your selection.
4. Press ◁ or ▷ to adjust.
5. Press the Menu button to exit the OSD Menu, or press Exit to make another selection.

Selection of “Sound Surround”

1. Press the Menu button, and then press ▽or △ until the “Audio” menu appears.
2. Press ▷ or Enter button to enter the “Audio” menu.
3. Press ▽or △ to highlight your “Surround Sound”
4. Press ◁ or ▷ to select “On” or “Off”
5. Press the Menu button to exit the OSD Menu, or press Exit to make another selection.

Selection of “SPDIF Type”

1. Press the Menu button, and then press ▽or △ until the “Audio” menu appears.
2. Press ▷ or Enter button to enter the “Audio” menu.
3. Press ▽or △ to highlight “SPDIF Type”.
4. Press ◁ or ▷ to select “Dolby Digital”, “PCM” or “Off”.
5. Press the Menu button to exit the OSD Menu, or press Exit to make another selection.



TV Page Menu (Only for TV)

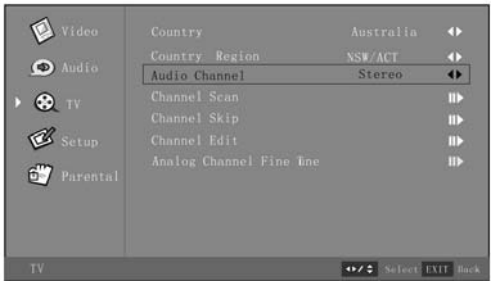
Setting the “Country Region”

1. Press the Menu button, and then press ▽or △ until the “TV” menu appears.
2. Press ▷ or Enter button to enter the “TV” menu.
3. Press ▽or △ to highlight “Country Region”.
4. Press ◁ or ▷ to select “NSW/ACT”, “VIC”, “QLD”, “SA”, “WA”, “TAS”, “NT”.
5. Press the Menu button to exit the OSD Menu, or press Exit to make another selection.

DTV

Using the “Audio channel” (Analogue TV OSD Menu only)

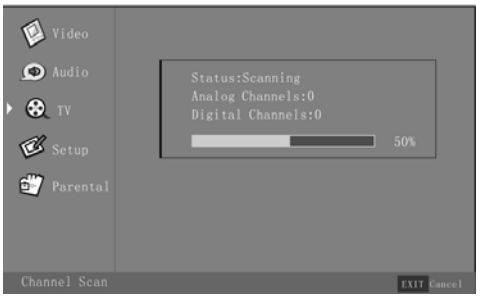
1. Press the Menu button, and then press ▽or △ until the “TV” menu appears.
2. Press ▷ or Enter button to enter the “TV” menu.
3. Press ▽or △ to highlight “Audio Channel”.
4. Press ◁ or ▷ to select Mono, Stereo, Dual1 or Dual2.
5. Press the Menu button to exit the OSD Menu, or press Exit to make another selection.



ATV

Using the “Channel Scan”

1. Press the Menu button, and then press ▽or △ he “TV” menu appears.
2. Press ▷ or Enter button to enter the “TV” menu.
3. Press ▽or △ to highlight “Channel Scan”.
4. Press ▷ or Enter button to start the channel search.
5. Press the Menu button to exit the OSD Menu, or press Exit to make another selection.



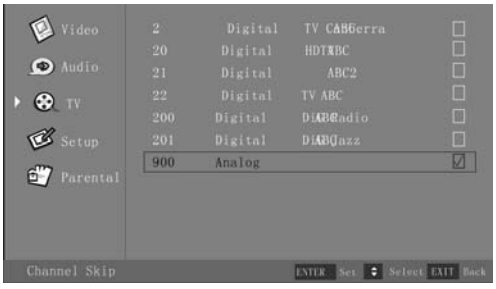
Note:

- This may take a few minutes to complete a full scan
- The channels found will store automatically.
- This TV will scan for Analogue and Digital channels
- All previously stored channels, as well as channel related information (eg. Channel Block, Channel Skip), is deleted when performing this scan.

Using the “Channel Skip”

This feature allows you to choose which channels will be part of the normal channel rotation when using the CH+ and CH- buttons. Channels chosen to be skipped will still be accessible by entering it's channel number directly, eg. 20 for HDTV ABC.

1. Press the Menu button, and then press ▽or △ until the “TV” menu appears.
2. Press ▷ or Enter button to enter the “TV” menu.
3. Press ▽or △ to highlight “Channel Skip”.
4. Press ▷ or Enter button to enter the submenu.
5. Press ▽or △ to choose a channel, then press Enter to confirm or cancel your selection.
6. When you select ☑, this channel will be skipped.
7. Press the Menu button to exit the OSD Menu, or press Exit to make another selection.



Selection of “Channel Edit”

1. Press the Menu button, and then press ▽or △ until the “TV” menu appears.
2. Press ▷ or Enter button to enter the “TV” menu.
3. Press ▽or △ to highlight “Channel Edit”.
4. Press ▷ or Enter button to enter the submenu.
5. Press ▽or △ to choose a channel, then press Enter or ▷ to enter the Edit Submenu (below)
7. When finished, press the Menu button to exit the OSD Menu, or press Exit to make another selection.

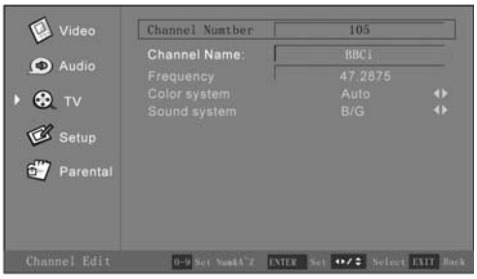
Channel Edit Submenu

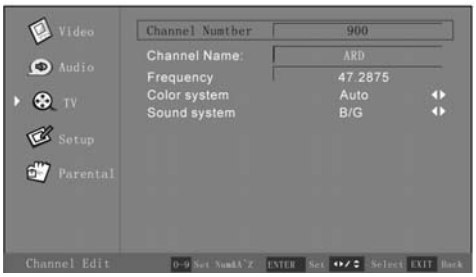
Note: for digital channels, only Channel Number and Channel Name information can be changed.

- Channel Number: use the number buttons to assign a new channel number. This may be up to 4 digits.

- Channel Name: use the Number buttons to enter letters or numbers in the Channel Name (1 = ABC, 2=DEF, etc. eg. Press 1 twice to enter B).

- See table below for a list of options for the other Channel Edit settings. These can be edited for analogue channels only.





Settings	Options
Frequency	0~999. Use DOT button for decimal point.
Color system	Auto, PAL, SECAM, NTSC
Sound system	BG, A2 BK, L, L’, I, DK, DK, A2 DK, A2 DK1

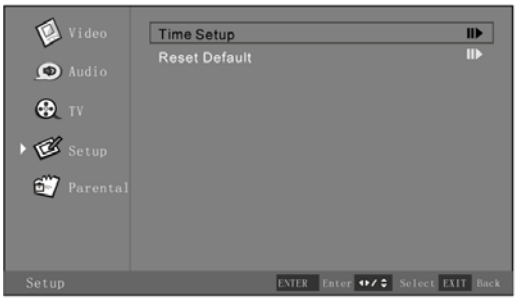
“Analog channel Fine Tune”

Please note that this function has been by replaced by the “Channel Scan” option, which will search for both analogue and digital channels. Manual changes to analogue channel tuning can be made from the Channel Edit menu.

Setup Page Menu

Use of the “Time Setup” menu

1. Press the Menu button, and then press ▽or △ until the “Setup” menu appears.
2. Press ▷ or Enter button to enter the “Setup” menu.
3. Make sure “Time Setup” is highlighted, press ▽or △ as required.
4. Press ▷ or Enter button to enter the submenu.
5. Press ▽or △ to choose “Time Zone”, “Time” or “Sleep Timer”.
6. When finished, press the Menu button to exit the OSD Menu, or press Exit to make another selection.



Time Setup Submenu

Selection of “Time Zone”

After entering the “Time Setup” submenu:

1. Make sure "Time Zone" is highlighted, press ▽or △ as required.
2. Press ◁ or ▷ to select your timezone.

Australian Timezones are as follows:

- GMT+8:00 Perth
- GMT+9.30 Darwin and Adelaide
- GMT+10:00 Canberra, Melbourne, Sydney, Brisbane, Hobart

3. Press the Menu button to exit the OSD Menu, or press Exit to make another selection.

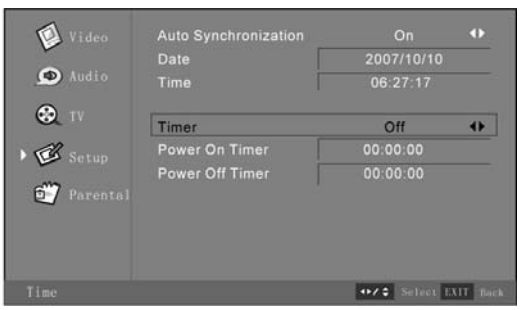
”Time” Options

After entering the “Time Setup” submenu:

1. Press ▽or △ to highlight “Time”.
2. Press ▷ or Enter button to enter the “Time” submenu.

- When “Auto Synchronisation” is set to “Off”, Date and Time information can be changed using the Number buttons.
- When “Timer” is set to “On”, the TV will turn On and Off from Standby mode every day at the “Power On/Off Timer” times. Use the Number button to edit these times.

Note: If the unit is unplugged, or main power is otherwise disrupted, the memory for all Time settings will be lost.



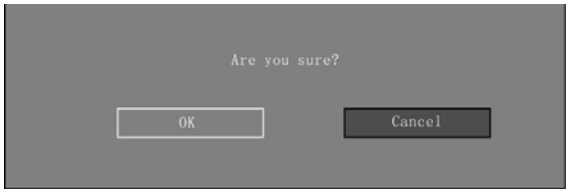
"Sleep Timer" Option

This option is replaced by use of the SLEEP button on the remote control. See Page 6, button 19 for more details.

"Reset Default"

Selecting this option will return items in the setup menu to factory default (Note: this will not reset the Parental password)

1. Press the Menu button, and then press ▽or △ until the "Setup" menu appears.
2. Press ▷ or Enter button to enter the "Setup" menu.
3. Press ▽or △ to highlight "Reset Default".
4. Press ▷ or Enter button and the "Are you sure" Popup menu will appear.
5. Press ◁ or ▷ to choose between "OK" and "Cancel". Choose "OK" to reset default.
6. Press the Menu button to exit the OSD Menu, or press Exit to make another selection.



Parental Page Menu

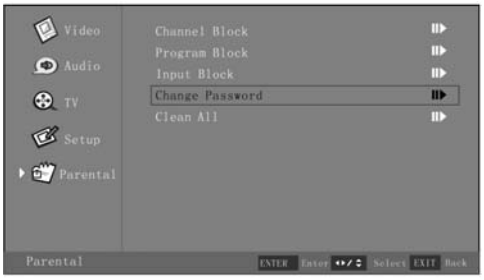
Some programs and movies include signals that classify the content of the program (dialog, language, sex, violence). The “Parental” control feature in this detects the signals and blocks the programs according to your selections. To use this feature, perform the following.

1. Press the Menu button, and then press ▽ or △ until the “Parental” option is highlighted.
2. Press ▷ or Enter button to enter.
3. Use 0-9 buttons input the password, and the Parental Control menu will appear.

Note: The initial password for the system is “0000”. If you have changed the password and forgotten it, please contact Kogan Technologies.

It is advised that the password be changed the first time the Parental Menu is accessed. Do not forget your new password!

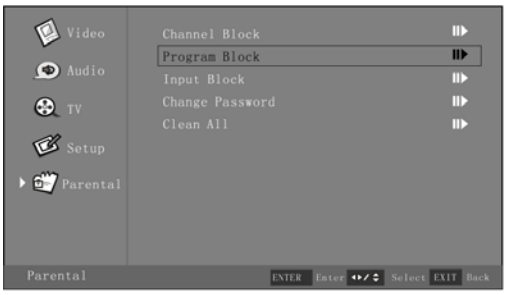
Using the “Change Password” function



1. After entering the “Parental” menu, press ▽ or △ to highlight “Channel Password”.
2. Press ▷ or Enter button to confirm.
3. Using 0-9 Number buttons, enter your new password in the “New Password” blank.
4. Using 0-9 Number buttons, enter your new password again in the “Confirm Password” blank.
5. When this is complete, the previous menu will be displayed.

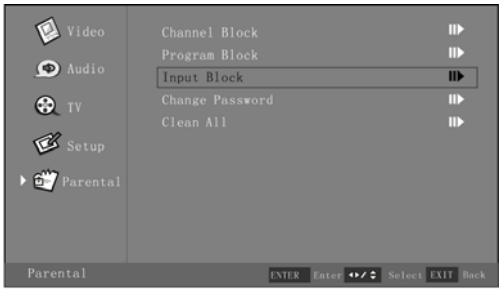
Using the “Program Block” function

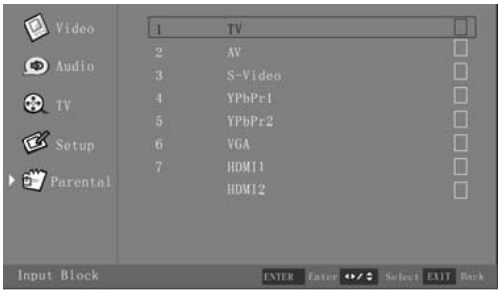
1. After entering the “Parental” menu, press ▽or △ to highlight “Program Block”.
2. Press ▷ or Enter button to confirm.
3. Press ▷ to choose from the following options:
   - Block All
   - No Block
   - Block R and above: restricted 18+
   - Block AV and above: adult audience. Strong violence 15+
   - Block MA and above: adult audience 15+
   - Block M and above: mature audience 15+
   - Block PG and above: Parental guidance suggested
   - Block G and above: suitable for all audiences
4. Press the Menu button to exit the OSD Menu, or press Exit to make another selection.



Using the “Input Block” function

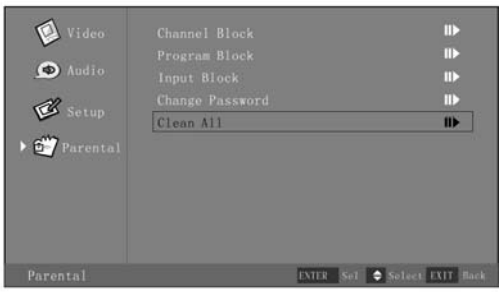
1. After entering the “Parental” menu, press ▽or △ to highlight “Input Block”.
2. Press ▷ or Enter button to confirm.
3. Press ▽or △ to choose an input to block. Choose from “TV”, “AV”, “YPbPr1”, “YPbPr2, “VGA”, “HDMI1”, “HDMI2”
4. Press Enter button to confirm your selection.
5. When you select ■, all signals from this input source will be blocked from being displayed.
6. Press the Menu button to exit the OSD Menu, or press Exit to make another selection.





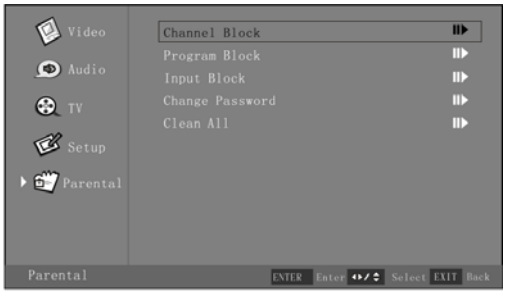
Using the “Clean All” function

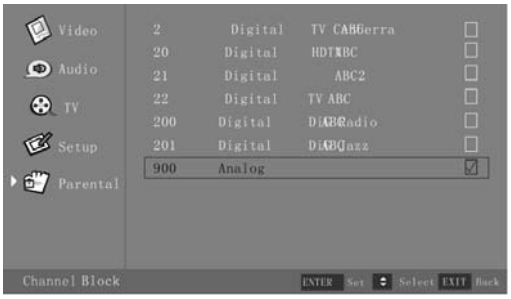
1. After entering the “Parental” menu, press ▽or △ to highlight “Clean All”.
4. Press ▷ or Enter button and the “Are you sure” Popup menu will appear.
5. Press ◁ or ▷ to choose between “OK” and “Cancel”. Choose “OK” to Clean All. This will remove all Parental Blocks from the system (the password changes will remain).
6. Press the Menu button to exit the OSD Menu, or press Exit to make another selection.



Using the “Channel Block” item

1. After entering the “Parental” menu, make sure "Channel Block" is highlighted, press ▽or △ as required.
2. Press ▷ or Enter button to confirm.
3. Press ▽or △ to choose from the saved channels.
4. Press Enter button to confirm your selection.
5. When you select 🔒, this channel will be blocked from being displayed.
6. Press the Menu button to exit the OSD Menu, or press Exit to make another selection.





Troubleshooting

Before contacting a service technician for any problems that arise, perform the following simple checks. If the problem persists, unplug the LCD TV and contact Kogan Technologies.

PROBLEM	POSSIBLE SOLUTION
No sound and picture	- Check that the main plug has been properly connected to a power outlet. - Check that you have pressed the POWER button on the front of TV set. - Check the picture contrast and brightness settings.
Normal picture but no sound	- Check the volume. - Sound muted? Press the MUTE button. - Try another channel as the problem may be with the broadcast. - Are the audio cables installed properly?
The remote control does Not work	- Check if there is any object between the product and remote control causing an obstruction. - Are batteries installed with correct polarity (+ to +, - to -)? - Correct remote operating mode set: TV, VCR etc.? - Install new batteries.
Power is suddenly turned off	- Is the sleep timer set? - Is the Power On/Off Timer (page 16) option on?
Picture appears slowly after switching on	- This in normal, the image is muted during the product startup process. Please contact you service center, if the picture has not appeared after five minutes.
No or poor color or poor picture	- Adjust the color in menu option. - Try another channel, the problem may be with the broadcast. - Are the Video cables installed properly? - Change the Video OSD Settings (page 10-12)
Horizontal/vertical bars Or picture shaking	- Check for local interference such as an electrical appliance or power tool.
Poor reception on some channels	- Station or cable product experiencing problems. Tune to another station. - Station signal is weak, reorient antenna to receive weaker station. - Check for sources of possible interference.
Lines or streaks in pictures	- Check the antenna (Change the direction of the antenna).
No output from one of the speakers	- Adjust balance in menu option.

The following troubleshooting problems below refer only to VGA mode.

PROBLEM	POSSIBLE SOLUTION
The image is not appearing on the screen properly	- Adjust resolution, horizontal frequency, or vertical frequency. - Check it whether the signal cable is connected or loose. - Check the input source.
Vertical bar of stripe on back ground & Horizontal Noise & Incorrect position.	- Activate the auto adjust function (see page 12) - Configure or adjust clock, phase, or H/V position settings
Screen color is unstable or single color.	- Check the signal cable. - Reinstall the PC video card.

Maintenance

Early malfunctions can be prevented. Careful and regular cleaning can extend the amount of time you will have your new TV. Be sure to turn the power off and unplug the power cord before you begin any cleaning.

Cleaning the screen

The LCD screen should be handled with care. It is recommended to use anti-static wipes or an LCD-screen cleaning kit if you need to clean the screen.

Cleaning the cabinet

To remove dirt or dust, wipe the cabinet with a soft, dry, lint-free cloth. Please be sure not to use a wet cloth.

Extended Absence

If you expect to leave your TV dormant for a long time (such as a vacation), it's a good idea to unplug the power cord to protect against possible damage from lightning or power surges.

Features

- High Definition display.
- Support HDMI Interface (HIGH-DEFINITION MULTIMEDIA INTERFACE) (1080P).
- DVB-T Tuner Built In.
- RF, HDMI, VGA, YPbPr, AV, S-Video inputs.
- Stereo audio inputs.
- Coaxial Digital audio outputs.
- Automatic or manual channel search.
- Auto-shutdown to save power when no signal is present.

Specifications

TV

TV System	PAL/Secam/NTSC
Screen size	47“ (diagonal)
Resolution	1920 x 1680
Aspect Ratio	16:9
Response time	5ms
Refresh Rate	100Hz
Aerial input	75Ω (unbalanced)
Audio output power	2 x 12W
Mains power	12V 4A
Power consumption	Stand by: 2W, Operating <200W
Remote control	Yes
Type	Infra-red
Control distance	8m
Control angle	30° (horizontal)
Batteries	2 x 1.5V size AAA
Dimensions	115.4cm x 84cm x 35cm
Weight	35kg